



REPORT
OF THE
BOARD OF GOVERNORS
AND
THE PRESIDENT
OF THE
UNIVERSITY OF ALBERTA
1940-41

LIBRARY OF THE UNIVERSITY
OF ALBERTA

To the Lieutenant Governor in Council.

SIR:

On behalf of the Board of Governors of the University of Alberta, and in accordance with section 29, subsection 2, of an Act respecting the University of Alberta, the undersigned have the honour to transmit through the Minister of Education the Report of the University of Alberta, setting forth the receipts and expenditures for the year ending March 31st, 1941, and the investments as they stood at the end of the fiscal year.

Appended to the Report is the Report of the Retiring President of the University, in which the academic work of the University for the year, July 1st, 1940, to June 30th, 1941, is dealt with in detail.

H. H. PARLEE, *Chairman.*

R. NEWTON, *Acting President.*

Financial Statement

UNIVERSITY OF ALBERTA
BALANCE SHEET AS AT MARCH 31, 1941

ASSETS

FIXED:

Buildings and equipment in service:		
Land, buildings and plant	\$3,816,594.91	
Furnishings and equipment	867,003.39	
		\$4,683,598.30

CURRENT:

Cash on hand and in transit	\$	5,485.85	
Cash in Treasury Branch		967.94	
Accounts receivable:			
Sundry debtors	\$24,475.03		
Less: Reserve for uncollectible accounts	2,000.00		
		22,475.03	
Interest accrued		1,562.50	
Inventories and supplies:			
Merchandise held for re-sale	\$26,194.65		
Supplies	8,894.99		
		35,089.64	
			65,580.96

OTHER ASSETS:

Livestock on hand	\$	27,542.50	
Deposit: Workmen's Compensation Board		3,736.35	
			31,278.85

PREPAYMENTS:

Insurance unexpired	\$	5,104.02	
Summer school expenses		156.74	
			5,260.76

DEFERRED CHARGES AND CAPITAL LOSSES:

Bond discount and expenses	\$	207,146.58	
Artificial gas plant abandoned		12,282.01	
Sundry		2,067.16	
			221,495.75

TRUST:

Investments:

	Par Value	Book Value	
Dominion of Canada debentures	\$ 20,800.00	\$ 21,198.12	
Dominion of Canada guaranteed debentures	1,500.00	1,500.00	
Province of Alberta debentures	675,400.00	665,622.35	
Province of Alberta debentures past due	8,000.00	8,000.00	
Province of Alberta guaranteed debentures	7,000.00	7,000.00	
Province of Alberta savings certificates	800.00	800.00	
Province of Alberta savings certificates past due	16,000.00	16,000.00	
Other debentures and shares	12,146.68	12,146.68	
	\$741,646.68	\$ 732,267.15	
Cash on hand and in transit		17,216.16	
Cash in bank		69,232.79	
Loans receivable		2,294.80	
Accounts receivable		1.50	
Mortgage interest receivable		947.58	
Mortgages receivable		38,626.72	
Real estate and shares, nominal value		18.00	
			860,604.70
			<u>\$5,867,819.32</u>

CAPITAL AND SURPLUS:		LIABILITIES	
Advances from Province of Alberta	\$4,765,303.15		
Capital surplus arising from:			
Equipment donated	\$ 13,192.63		
Sundry sales and bequests	2,081.98		
Income contributions to new farm and works building	2,562.52		
Income contributions to library	125,397.72		
	<u>\$143,234.85</u>		
Deduct: Revenue deficit as per State- ment No. 76	18,782.54		
		124,452.31	\$4,889,755.4
CURRENT:			
Bank overdraft	\$ 24,654.06		
Bank loan	7,500.00		
Accounts payable	53,563.49		
			85,717.5
RESERVES:			
Premium on Rockefeller grant	\$ 18,221.66		
Unexpended library fees and donations	9,783.60		
Workmen's Compensation Board	3,736.35		
			31,741.6
TRUST:			
Rockefeller Foundation	\$ 500,000.00		
Escheated Estates	165,311.17		
Carnegie grant in aid of pension fund	49,894.37		
Sundry endowments, bequests and scholarship grants and amounts administered or held for affiliated organizations and others	141,418.52		
Trust accounts payable	3,980.64		
			860,604.7
			<u>\$5,867,819.3</u>

Edmonton, Alberta, August 5, 1941.

I have audited the books of account of the University of Alberta for the year ended March 31, 1941, and the above Balance Sheet and accompanying Statement of Revenue and Expenditure are in accordance therewith.

Land, buildings, plant, furnishings and equipment are shown at original cost without provision for depreciation. An inventory of furnishings and equipment was not available as at March 31, 1941, but University officials are of the opinion that the value has been maintained by renewals and additions from revenue.

Trust fund investments include Province of Alberta past due debentures and savings certificates of a par value of \$24,000.00. Interest on Province of Alberta direct and guaranteed issues were accepted during the year ended March 31, 1941 at reduced rates as set forth in Chapter 11, Statutes of Alberta (Second Session).

Principal repayments on mortgages receivable were in arrears \$9,626.72 as at March 31, 1941.

Subject to the foregoing remarks, I certify that, in my opinion, the above Balance Sheet is properly drawn up so as to show the financial position of the University of Alberta as at March 31, 1941, and the accompanying Statement of Revenue and Expenditure correctly sets forth the result of operations for the year ended at that date.

CHAS. M. LANG, F.C.A.,

Acting Provincial Auditor.

UNIVERSITY OF ALBERTA
STATEMENT OF REVENUE AND EXPENDITURE
FOR THE YEAR ENDED MARCH 31, 1941

REVENUE

Province of Alberta:			
Grant	\$	428,000.00	
Debt charges		133,212.38	
			\$ 561,212.38
Rockefeller Foundation			12,500.00
General and summer school fees			262,864.60
Library fees			9,086.20
Garage rentals, net			1,571.35
Administration charges recovered			1,046.00
Operating departments' net revenue:			
	Revenue	Expenditure	
Rentals	\$ 40,408.32	\$ 28,795.86	11,612.46
Dining room	63,818.28	55,574.10	8,244.18
Bookstore and post office	44,556.20	39,084.78	5,471.42
Printing department	30,524.66	26,737.44	3,787.22
	<u>\$179,307.46</u>	<u>\$150,192.18</u>	
			<u>\$ 877,395.81</u>

EXPENDITURE

Salaries:			
Total salaries and wages	\$	668,338.79	
Less: Charged to departments		304,953.95	
			\$ 363,384.84
Debt charges			133,212.38
Operating departments' net expenditure:			
	Expenditure	Revenue	
Department of Agriculture	\$122,876.87	\$ 29,161.94	93,714.93
Provincial and industrial laboratories	46,771.36	10,108.86	36,662.50
Department of Extension	49,742.95	21,133.70	28,609.25
Power plant	52,605.98	26,584.68	26,021.30
Department of Dentistry	16,785.20	3,680.29	13,104.91
Department of Pharmacy	10,783.31	970.26	9,813.05
Works department	49,563.04	48,675.45	887.59
	<u>\$349,128.71</u>	<u>\$140,315.18</u>	
Maintenance and repairs			46,902.78
Pensions			21,609.44
Instruction laboratories			20,746.55
Special clinical services			17,500.00
Research Council			11,316.11
School of Education			13,501.45
Provision for library extension			9,086.20
Summer school			9,431.99
Calendars, press bulletins, etc.			2,720.45
Rent			2,571.44
Printing and stationery			2,272.69
Telephone and telegrams			2,292.06
Library			1,819.64
Insurance			2,879.68
Travelling expenses			1,822.25
Postage and excise			1,199.41
Provost			1,035.35
Upkeep of cars			879.21
Inspection and repair of office machines			549.08
Bank interest			274.15
Scholarships and medals			470.40
Physical education			223.14
Sundry			2,472.48
			<u>\$ 878,986.70</u>
Excess of expenditure over revenue for the year ended March 31, 1941			<u>\$ 1,590.89</u>

DEFICIT ACCOUNT

FOR THE YEAR ENDED MARCH 31, 1941

Deficit at March 31, 1940	\$ 17,636.
Add:	
Sundry adjustments of previous years' revenue	273.
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	\$ 17,909.
Less:	
Sundry adjustments of previous years' expenses	717.
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	\$ 17,191.
Add:	
Excess of expenditure over revenue for the year ended March 31, 1941	1,590.
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Deficit at March 31, 1941	\$ 18,782.

APPENDIX

THE REPORT OF THE PRESIDENT

*To the Board of Governors
of the University of Alberta.*

GENTLEMEN:

I have the honour to submit Dr. W. A. R. Kerr's report on the academic work of the University of Alberta for the year ending June 30th, 1941.

Dr. Kerr retired from the presidency on September 1st, 1941. The University had completed only one session of its history, when it was joined by Dr. Kerr in 1909 as Professor of Modern Languages. Five years later he was appointed Dean of the Faculty of Arts and Science, a position he filled with distinction until he was called to the presidency in 1936. Dr. Kerr thus played a prominent role in the development of the University from the outset. He will look back with satisfaction on large accomplishments, and the University and its alumni will remember him with gratitude.

ROBERT NEWTON,

Acting President.

The Report of the President

Before submitting detailed information concerning registration and other matters relating to the work of the University during the past session together with the annual reports of administrative officers, I desire to make some general observations touching the progress of the institution as a whole during the academic year which has just elapsed.

Registration.

The total registration of students for the current academic year has amounted to 2,254, a decrease of 75 from the session of 1939-40, a much smaller reduction than might have been expected considering the number of young men who have answered the call to the colours.

Thirty-six students are pursuing graduate work elsewhere, distributed among the following universities and colleges:

University of British Columbia, Bryn Mawr College, University of California, California Institute of Technology, University of Chicago, Cornell University, Harvard University, Massachusetts Institute of Technology, McGill University, University of Minnesota, Northwestern University, Ohio State College, University of Oklahoma, Princeton University, University of Toronto, Washington State College, University of Washington, University of Western Ontario, University of Wisconsin.

Last summer, as a result of consultation between executive officers of the Canadian universities and representatives of the Department of Defence, it was agreed that all men students physically fit should be required to undergo military training, whether in the C.O.T.C. or in an Auxiliary Battalion. The students loyally conformed to this serious addition to their academic studies and, throughout the winter, military work was patriotically pursued to the satisfaction of the Officer Commanding, Lieutenant-Colonel P. S. Warren, and of the inspecting officers. It is of some interest to note that only one recalcitrant man was finally reported to the Alberta War Services Board. His case was dealt with by that authority.

The changes in our teaching personnel have not been so extensive or so serious as in the preceding year.

Owing to the enlargement of the entering quota in Applied Science it was necessary to secure additional teaching assistance in that faculty and besides to take over the old Garneau High School building for the further physical accommodation required. Temporary appointments had also to be made in the departments of Entomology and English to replace Professor Strickland and Dr. Tracy, who joined the C.A.S.F.

It will be recalled that some ten years ago it became necessary, owing to the incidence of the great depression, to ask our staff to submit to a serious horizontal reduction in salaries. These deductions, regarded at first as temporary, have finally run over upwards of a decade, putting a great strain on the loyalty and esprit-de-

corps of the staff. The Board of Governors have long been concerned about this situation, but it was not till within the past three years that it was possible to take initial practical steps to solve the problem of the restoration of salaries. It is a pleasure, therefore, now to announce that the Government has enabled the Board to do this.

There is no form of educational endowment in which Canada is weaker than in the provision of scholarships. These aids enable young men and women of ability and character, but who are lacking in financial resources, to receive that intellectual training without which a career nowadays is discouragingly difficult. It is certainly also on the other hand in the fundamental interests of the state that every citizen should be educated to the limit of his individual capacity. It is therefore a great pleasure to express the University's gratitude to the Provincial Chapter of Alberta, Imperial Order Daughters of the Empire, for their gift of three additional matriculation scholarships of the value of \$400.00 each—making six scholarships in all provided annually by the Order.

The Banff School of Fine Arts enjoyed last summer its most successful season. Its enrolment rose to 144 regular students and, in addition, there was a special class in colloquial French numbering thirty. The comfortable housing in the new theatre-hall has made the operation of the school easy and satisfactory. The University is deeply grateful to the Carnegie Corporation for a further gift of \$5,000 spread over three years, which has enabled us to institute for the first time courses in ceramics and weaving, an initiative which promises to attract an interested following.

A year ago, I referred to the common misapprehension that for a good part of the twelve months the University and its plant lie fallow. I mentioned that for the most of the summer season varied educational activities occupied the University buildings. In addition to those alluded to at that time, we were glad to accede to the request of the Department of National Defence to train one hundred and twenty young radio technicians. The course, the duration of which covered the summer months, was given by an instructional staff headed by Professor E. G. Cullwick, head of our department of Electrical Engineering. It is permissible to state that the purpose of the school was to train young men to operate the new device for the spotting of raiding planes by night.

A year ago, I referred to the fact that the plant of the University's Radio Station CKUA was practically worn out and I stated at that time that, if the Station was to remain on the air, the whole physical equipment would have to be completely rehabilitated.

Negotiations were initiated with the Government which promised to give the University the necessary financial assistance as a result of which a new modern station has been erected on the Calgary Trail some three miles south of the city limits.

The College of Education has now completed its first year in its new form and congratulations are due to Principal LaZerte and his colleagues for the encouraging success of the past session. The enrolment of the College has substantially risen and the sphere of its activities and influence is obviously expanding.

As a war measure and in response to the urgent request of the Department of National Defence, the three University residences, Pembina Hall, Athabaska Hall

and Assiniboia Hall, were turned over to the military authorities to be used as dormitories for the trainees at the No. 4 Initial Training School of the R.C.A.F.

Residences such as ours, which contain an infirmary and a gymnasium as well as kitchens and dining-rooms, present a very complex set of factors.

Although the surrender of the University residences to the Department of National Defence offered serious difficulties, our Board of Governors had no doubt where its patriotic duty lay and at once met the Government's request for the use of this portion of University property, but reserved as necessary parts of the University organization the Infirmary and Gymnasium for the use of our students.

The surrender of the residences means a heavy sacrifice for us in the field of social education, but I feel sure that our students will face the situation—a straight product of the war—as it develops.

I cannot close without referring gratefully to the loyalty and self-sacrifice of the staff throughout a year that has presented its own difficulties. The tenseness of the atmosphere caused by the war has been felt by all—teacher and taught. It is obviously the duty, however, of the members of an institution such as this to act, so far as possible, as a steadying influence at a time when the very foundations of our civilization are under savage challenge and ruthless attack.

The following are the statistics with reference to the teaching staff during the year:

Full-Time Staff:

(a) (b) Professors	51
Associate Professors	13
(c) Assistant Professors	15
(d) Lecturers	22
Instructors	8
Demonstrators and Assistants	9
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Total	118
(a) 1 on sick leave.	
(b) 3 on leave for War Service.	
(c) 1 on leave for War Service.	
(d) 3 on leave for War Service.	

Part-Time Staff:

Professors	12
Associate Professors	4
Assistant Professors	9
(d) Lecturers	20
(e) Instructors	11
(f) Demonstrators and Assistants	70
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Total	126
(d) 2 on leave for War Service.	
(e) 2 on leave for War Service.	
(f) 7 on leave for War Service.	

Library:

Librarian	1
Assistants	6
Sessional help	6
Total	13

Extension Department:

Director	1
Librarian	1
Lecturer	1
Total	3

Department of Industrial Research:

Research Professor	1
Assistant Research Professor	1
Assistants	1
Total	3

Industrial Laboratory:

Director	1
Assistant	1
Total	2

REGISTRATION BY FACULTIES

As distributed in the various faculties and schools the numbers are as follows:

Total registration	2254
1. Arts and Science	751
B.A. and B.Sc.	406
School of Commerce	84
School of Household Economics	88
Auditors	6
Special	3
Combined Courses:	
Arts and Medicine	109
Arts and Dentistry	27
Arts and Law	24
Arts and Agriculture	1
Arts and Commerce	3
—	164
2. Applied Science	317
Including Chemical, Civil, Mining, Electrical Engineering and Engineering Physics.	
3. Agriculture	156
4. Law	59

5. Medicine	453
Medicine	201
Dentistry	52
Pharmacy Degree	16
Pharmacy Licentiate	36
Nursing Degree	89
Nursing Diploma	59
6. College of Education	51
7. Divinity	15
8. Summer Session (1940)	397
9. Short Course in Agriculture	19
10. Graduate Students	122
Arts and Science:	
M.A.	22
M.Sc.	21
	— 43
Agriculture:	
M.Sc.	11
	— 11
School of Education:	
M.A.(Educ.)	13
B.Educ.	33
M.Educ.	7
	— 53
Special	15
	—
Total	2340
Less duplicates in Summer Session	86
	—
Total	2254

GIFTS, SCHOLARSHIPS AND PRIZES

Gifts:

From the National Research Council: For research in Agriculture in the departments of Field Crops and Soils, \$9,954.19. For research in Medicine in the department of Biochemistry, \$1,310.00. For research in Electrical Engineering (W.T. and Sd. Project P1000—S), \$375.00.

From the Department of Agriculture, Dominion Government: For research in Agriculture, \$500.00.

From the Department of National Health, Dominion Government: For a nutritional survey by the department of Biochemistry, \$800.00.

From the Rockefeller Foundation: For research in the department of Zoology, \$1,500.00. For research in the department of Chemistry, \$500.00.

From the Carnegie Corporation: For the Banff School of Fine Arts, \$2,500.00.

From the United Grain Growers: For the Alberta School of Community Life, \$500.00. For research in Agriculture, department of Field Crops, \$1,000.00.

From the Alberta Wheat Pool: For the Alberta School of Community Life, \$500.00. For research in Agriculture, department of Field Crops, \$100.00.

From the C.I.B.A. Company of Montreal: For research in Biochemistry, \$1,000.00.

From the Canadian Industries and the Bayer-Semesan Company of Wilmington, Del.: For research in Agriculture, \$600.00.

From the College of Physicians and Surgeons of Alberta: For the Medical Library, \$200.00. For the purchase of medical history material through Dr. Heber Jamieson, \$75.00.

The collections in the department of Geology have been increased appreciably by gifts of minerals, rocks, ores, fossils, oils, photographs and books. Most of these donations have been received from about nineteen graduates and senior students of the University of Alberta. The gifts received during the year represent a value of about \$200.00. Among them are several specimens of the rarer minerals from the Northwest Territories and these are regarded as strategic war minerals.

From the Students' Council of the University of Alberta: The gift of \$750 as a contribution towards the setting up of an athletic room in Athabaska Hall.

From the Edmonton Horticultural Society: A gift of \$50.00 to be used towards the maintenance of test plots under the supervision of the Department of Horticulture.

From the Graduating Class of '40: The gift of a permanent amplification system, with two speakers, for Convocation Hall.

Scholarships:

Mr. J. S. McLean of Toronto has again given the sum of \$1,000.00 to continue the McLean Bursaries, eight of which to the value of \$125 each he established in 1940-41. These bursaries are awarded on the basis of academic record and financial need and are open to students from farm homes and are tenable in any faculty of the University.

The Provincial Chapter of Alberta, Imperial Order Daughters of the Empire, has generously offered three additional matriculation scholarships of the value of \$400 each, making six in all. The candidate must be the child of a man or woman who served overseas with the British forces during the Great War and must have resided in the province of Alberta for at least three years prior to application.

Prizes:

A prize of \$15.00 has been offered by Mr. Justice O'Connor in memory of his mother, Maria Isabel O'Connor, to be awarded annually to the student in the second year of Household Economics who takes the highest standing in Household Economics 55.

PUBLICATIONS BY STAFF

By the Acting President, Dr. R. Newton: "The Wise Utilization of Our Resources: Agriculture and Forestry," Transactions Royal Society of Canada (in press), May, 1941.

Department of Anatomy.

The following work has been published under the sponsorship of this department:

By S. Hartroft: "The Vascular Development of the Kidney", Transactions of the Royal Society (in press), June, 1941.

Department of Animal Husbandry.

By J. P. Sackville and R. D. Sinclair: "Cattle Finishing in Alberta", University of Alberta Bulletin No. 34, pp. 1-34, October, 1940.

By R. D. Sinclair: "Swine Production in Alberta", University of Alberta Bulletin No. 22 (5th edition), pp. 1-101, June, 1941.

Department of Biochemistry.

By G. Hunter and L. B. Pett: "A Dietary Survey in Edmonton", Canadian Journal of Public Health, 32, pp. 259-265, 1941.

By M. M. Cantor: "Endocrinology—The History of an Idea", The Question Mar, 8, pp. 11-14, 1941.

By L. B. Pett: "The Vitamin Chart", Canadian Medical Association Journal, 44, pp. 181-182, 1941. "Mobilization of Vitamin A by Alcohol", Science 92, p. 63, 1940.

By L. B. Pett and Marian K. Lipkind: "Factors Affecting the Pett Visual Test for Vitamin A Deficiency", Canadian Journal of Research, 19, pp. 99-108, 1941.

Department of Botany.

By E. H. Moss: "Interxylary Cork in *Artemisia* with a Reference to its Taxonomic Significance", American Journal of Botany, 27, pp. 762-768, 1940.

Department of Chemistry.

By H. R. Thornton, F. McClure and R. B. Sandin: "Reduction in Resazurin in Milk and Aqueous Solutions", Canadian Journal of Research, 13, 19, pp. 39-41, 1941.

Department of Civil Engineering.

By C. A. Robb: "Cost Problems Relating to Power", Cost and Management, pp. 430-434, March, 1941. "Gauges for Mass Production", The Engineering Journal, 24, pp. 180-184, April, 1941. "Recompression Phenomena in Steam Nozzles", The Canadian Journal of Research, Part I, May; Part II, June, 1941.

Department of Dairying.

By H. R. Thornton: "The Standardization of NAT 2", Report to the Commission on Standardization of Biological Stains, July, 1940.

By H. Wolochow, H. R. Thornton and E. G. Hood: Joint publication with the Division of Bacteriology and Dairy Research, Science Service, Department of Agriculture, Ottawa. "The Bacteriological Analysis of Creamery Waters", Canadian Dairy and Ice-Cream Journal 20: pp. 23-25, 1941.

By H. R. Thornton, F. McClure and R. B. Sandin: Joint publication with the Department of Chemistry—"The Reduction of Resazurin in Milk and Aqueous Solutions", Canadian Journal of Research B. 19, pp. 39-48, 1941.

Department of Dentistry.

By H. A. Gilchrist: "Stabilized Impressions," Journal of Canadian Dental Association, pp. 293-297, June, 1941.

By W. S. Hamilton: "Ultra-Violet Sterilization of Instruments," Journal of Canadian Dental Association, pp. 124-125, March, 1941.

By G. A. Gemeroy: "Sulfanilamide", Journal of Canadian Dental Association, pp. 385-389, August, 1940.

Department of Education.

By M. E. LaZerte: "Survey Tests in Mathematics." Separate tests for Grades II to IX inclusive, published by the Alberta Teachers' Association, November, 1940. "Report on Survey Tests in Arithmetic", A.T.A. Magazine, p. 22, February, 1941. "Canadian Council for Educational Research", The School, Toronto, Elementary Edition, January, 1941, pp. 430-433. The School, Toronto, Secondary Edition, January, 1941, pp. 430-433.

By H. E. Smith: "The New Education in Alberta", The School, Toronto, Elementary Edition, November, 1940, pp. 187-191. The School, Toronto, Secondary Edition, November, 1940, pp. 187-191. "Home and School Associations", Alberta Teachers' Association Magazine, March, 1941, pp. 17-18; April, 1941, p. 15; May, 1941, pp. 15-16.

Department of Electrical Engineering.

By E. G. Cullwick: "Electro-Magnetism, H. A. Wilson's Experiment on a Magnetic Insulator", Electrician (London), v. CXXV, October 18, 1940, pp. 203-205.

Department of English.

By R. K. Gordon: "Le Voyage d'Abbotsford", Transactions of the Royal Society of Canada, Third Series, Section 2, v. XXXIV, 1940, pp. 71-85.

By C. R. Tracy: "The American Scholar To-day", Queen's Quarterly, v. XLVIII, No. 2, 1941.

Department of Field Crops.

By A. G. McCalla and Nils Gralén: "Gluten Protein", Nature, 146:60-61, 1940.

By J. D. McCaig and A. G. McCalla: "Changes in the Physical Properties of Gluten with the Aging of Flour", Can. J. Res., C 19:163-176, 1941.

By F. H. Peto and J. W. Boyes: "Comparison of Diploid and Triploid Sugar Beets", Can. J. Res., C 18:273-282, 1940.

Department of Geology.

By J. A. Allan: "The Relation of the Geology to the Soils in the Milk River Sheet", Appendix, Bulletin 36, College of Agriculture, University of Alberta, pp. 90-105. "Subsurface formations of the Pouce Coupe River District, Alberta" (with C. R. Stelk), Transactions of the Royal Society of Canada, section IV, v. 34, 1940, pp. 15-20. "Memorial to Eugene Coste", Proceedings of the Geological Society of America, June, 1941, pp. 184-189.

By P. S. Warren: "Cenomanian and Turonian faunas in the Pouce Coupe district, Alberta and British Columbia (with C. R. Stelk), Transactions Royal Society of Canada, Section IV, v. 34, pp. 143-151, pls. I-IV. "Sedimentation in the Cordilleran Geosyncline in Alberta and British Columbia", Proceedings Sixth Pacific Science Congress, 1939, pp. 245-251.

By R. L. Rutherford: "Asterism in Selenite", University of Toronto Studies No. 44, Contributions to Canadian Mineralogy, October, 1940, pp. 71-74.

Department of Horticulture.

By J. S. Shoemaker: "Celery in Alberta", University of Alberta, Bulletin 35, pp. 1-52, 1940.

Department of Household Economics.

By H. McIntyre: "Can Good Good be Served in Hospitals?", The Canadian Hospital, June, 1941, p. 17.

Faculty of Law.

By J. A. Weir: "Mistake in the Law of Contracts", Canadian Bar Review, v. 19, June, 1941, pp. 391-437.

By M. M. McIntyre: "The Rationale of Last Clear Chance", Canadian Bar Review, v. 18, November, 1940, pp. 665-690.

Department of Mathematics.

By J. W. Campbell: "Rocket Flight to the Moon", Philosophical Magazine, Section 7, v. XXXI, January, 1941, p. 24.

By A. J. Cook: "Trigonometry and Analytical Geometry" (King's Printer, Edmonton), for use in Alberta High Schools, Grade XII.

Department of Medicine.

By P. H. Sprague: "A Case of Temporal Arteritis", Journal Canadian Medical Association, 43, 6, pp. 562-564, December, 1940.

By C. B. Rich: "Spinal Appendicitis", Journal Canadian Medical Association, 43, 3, pp. 260-264, September, 1940.

Department of Philosophy.

By J. M. MacEachran: "John Watson: Some Great Men of Queen's", The Ryerson Press, Toronto, 1941.

By D. Smith: "Variability of the Placing Reactions in the Rat", Bulletin of the Canadian Psychological Association, v. 1, pp. 12-13, 1940.

Department of Physiology and Pharmacology.

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Department of Soils.

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By V. Ignatieff: "Determination and Behaviour of Ferrous Iron in Soils", Soil Science, v. 51, No. 4, pp. 249-263, April, 1941.

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EXCERPTS FROM THE REPORTS OF ADMINISTRATIVE OFFICERS

The following excerpts from the reports of administrative officers give some indication of the broad scope of the work of the University.

Report of Dean G. M. Smith of the Faculty of Arts and Science

1—Registration, 1940-1941.

During the regular academic session, 1940-41, 751 students have been registered in the Faculty of Arts and Science as compared with 783 in 1939-40. Registration has increased only in the combined courses leading to Medicine and Dentistry.

2—Recommendations for degrees, May, 1941.

The number of students recommended by the Faculty of Arts and Science for degrees, in May, 1941, is as follows:

For the B.A. Degree	81
For the B.Sc. Degree	57
For the B.Commerce Degree	28
For the degree of B.Sc. in Household Economics	25
	<hr/>
	191

3—Legislation, 1940-41.

There has been no new legislation of major importance during the year.

4—Enlisted Students.

Certain minor deficiencies of enlisted students have been overlooked and minor concessions granted. Also students of good standing who have been called for Active Service in March and April and have been unable to write some or all of their examinations have been recommended for their degrees or for complete standing in their years. Others, whose work has been satisfactory in certain courses have been granted standing in these courses. The attitude of Council has been that enlisting students should know the official view of their academic status at the time of enlistment and that where concessions are possible they should be made at that time or soon as possible thereafter.

5—Military Training.

The great majority of the students have loyally observed the rules of the Senate in respect of military training in the Officers' Training Corps or in the Auxiliary Battalion. A small number of students were in arrears late in the session but all

but one student in Arts and Science had removed all deficiencies before 30th April by attending special parades.

The increase or decrease in registration in each division of the faculty as compared with registration in 1939-40 follows:

B.A.	—24
B.Sc.	—12
B.Commerce	—15
B.Sc. in Household Economics	— 7
B.H. Economics	— 2
B.A. and B.Commerce	No change
B.A. and M.D.	—19
B.Sc. and M.D.	—46
B.A. and D.D.S.	— 1
B.Sc. and D.D.S.	—11
B.A. and LL.B.	—15
B.A. and Applied Science	— 1
B.A. and Agriculture	— 3
B.Sc. and Agriculture	— 2
Partials	— 3

Report of Dean R. Newton of the Faculty of Agriculture

In this University, as in other Canadian Universities, the Faculty of Agriculture combines two functions: (1) academic, (2) the operation of an agricultural experiment station.

1—*Academic.*

While the registration of freshmen dropped to 56 from last year's peak of 71, the total faculty registration of 156 undergraduates was the largest to date. The graduating class of 26 is also the largest yet. The high average quality of these graduands was commented upon by the committee appointed to allocate the gold medal offered by the Alberta Branches of the Canadian Society of Technical Agriculturists. They found seven students with a standing equal to or better than that of the 1940 medal winner. The three graduating students taking honours courses all attained first class honours.

Again this year, continuing a custom of several years, the Alberta Wheat Pool helped to launch the graduands on their professional career by paying their initial membership fees in the Canadian Society of Technical Agriculturists.

Five of the twelve agricultural students proceeding to the degree of Master of Science in the School of Graduate Studies completed their work, one each in Dairying, Horticulture and Soils and two in Field Crops.

The fourth annual three-day course for Land Inspectors was devoted mainly to soil problems, and brought out a registration of seventy-one. The annual four-week Creamery Course, limited to twenty experienced buttermakers, was given as usual in co-operation with the Provincial Dairy Branch. A two-week course for Factory Cheesemakers was given with the further co-operation of the Dairy Produce Division of the Dominion Department of Agriculture. This new departure was a timely contribution to the Dominion-wide effort to send Britain more cheese.

During the year we had suggestions from outside bodies desirous of engaging help with special technical qualifications that we should be training at least a few

specialists in agricultural economics, poultry and irrigation. As yet we have not graduated any specialists in these fields. Our attention was also called to the increasing shortage of dairy technicians, partly due to heavy enlistment and partly to the growth of the industry.

We established this year in co-operation with the Canadian Society of Technical Agriculturists a Committee on Professional Experience to help students find summer employment which supplements their academic training in a useful way.

Henceforth, all students will be required to spend a minimum of four years at the University to complete the work for the B.Sc. in Agriculture. Students from the Provincial Schools of Agriculture, who have been able hitherto to graduate after three years of work, are not penalized by this change, since Grade XI standing, plus a certificate from a School of Agriculture, will be accepted in lieu of the Grade XII standing required of other students.

2—*Experimental Work.*

The department of Soils completed their field survey of the area covered by the Calgary and Blackfoot map sheets; and their report on the Milk River sheet has been printed. This work is largely financed by the Dominion Department of Agriculture, and at present is concentrated on marginal areas where readjustment of settlement may be necessary.

The department of Field Crops completed a five-year survey of the milling and baking quality of wheat varieties grown in different soil zones, and is launching a new survey designed to establish the comparative suitability of these wheats for new industrial uses, something very important in the crisis caused by the wheat surplus. The adjustment to changed agricultural conditions inspired also renewed activity in the production of drought-resistant forage plants for the south and a better-adapted flax for the north. Ferax alfalfa, a new heavy-seeding variety the result of seventeen years' breeding, has been distributed in small quantity this spring. Much of the work in Field Crops is supported from outside sources.

The Department of Agricultural Engineering has co-operated in prairie farm rehabilitation work, with special reference to the investigation of machinery problems in power farming.

Low prices and shrinking markets are forcing an increasing degree of self-containment on western farmers. This increases the importance of home-grown fruits and vegetables, of farm flocks of poultry and sheep, and of milk cows. These matters are much in the minds of the departments concerned. This is not usually thought of as a tree-fruit country, yet the University experimental orchards yielded in 1940 about 7,000 pounds of fruit.

The department of Poultry is co-operating with the Provincial Poultry Branch in studies on the hatchability of eggs, something which often makes the difference between profit and loss in poultry raising.

The department of Animal Husbandry has completed co-operative studies on cobalt deficiency in sheep nutrition, the cause of so-called "bush sickness". The Dominion Department of Agriculture contributed \$3,500 to this work. The relation of nutrition to anaemia in winter-farrowed pigs is now under investigation, not only to protect the supply of Wiltshire bacon to beleaguered Britain, but also to save from extinction the profits in hog-raising, at present the one economic star in the agricultural firmament. Still further to support the necessary trend towards greater diversification in western agriculture, a new project has been launched with

the object of demonstrating the profitableness of a grade herd of dual purpose (milk and beef) animals.

Feeder's Day, now in its twentieth year, and the annual meetings of breed associations and other farmers' organizations held at the University, are increasingly popular and useful occasions for disseminating the results of experimental work.

Publications during the year intended for farmer readers were the following:

Bulletin:

No. 9—Ropework for the Farm. 5th Edition (revised).

No. 33—Hotbeds, Coldframes and Small Greenhouses.

No. 34—Cattle Finishing in Alberta.

No. 35—Celery in Alberta.

Circular:

No. 9—Poultry Diseases in Alberta (revised).

Leaflet:

No. 11—Cultural Methods for Growing Sweet Clover in Alberta.

No. 19—Methods for Controlling Insect Pests in the Home.

No. 22—The Forest Tent Caterpillar.

Report of Acting Dean J. J. Ower of the Faculty of Medicine

Herewith a short report of the activities within the faculty of Medicine, including the affiliated Schools of Pharmacy, Dentistry and Nursing, during the past session.

Pharmacy.

The Director of the School of Pharmacy reports another successful year. There were sixteen students, including one woman, proceeding to the degree and thirty-six, including six women proceeding to the diploma. As heretofore, lectures in Pharmacy were given by the members of the staff of the School of Pharmacy to all medical, dental and nursing students attending the University, in addition to those students registered in the school itself.

During the past year, as a result of the activities of a committee on the status of pharmacists in the army of which the Director of the School was chairman, recognition has been given to the professional standing of graduates in Pharmacy, with the result that there are now on service about thirty pharmacists holding ranks of Lieutenant and Major, as well as over two hundred non-commissioned and warrant officers.

There is a continual stream of requests for trained pharmacists from large pharmaceutical firms in the East, with the result that many of our graduates hold responsible positions in the laboratories of several well-known Canadian drug companies.

Dentistry.

The Director of the School of Dentistry also reports a successful session. There were fifty-two students in the courses in Dentistry, thirteen of whom are in the graduating class. During the month of March, an urgent call came from the D.G.D.S. for graduate dentists and later a request was made to the President that we arrange to advance the final examinations of those members of the graduating class who would agree to enlist in the C.D.C. immediately. This request was granted and seven final year students were given special examinations early in April.

Nursing.

During the session 1940-41, there were eighty-nine students registered in the degree course in Nursing and fifty-nine in the diploma course. There are two students in the degree course who are completing their final year elsewhere—one at McGill University and the other at the University of British Columbia. The graduating class in the diploma course consists of eighteen students. The Director of the School of Nursing (Miss Agnes Macleod) is on leave of absence, serving with the nursing service of the C.A.S.F. overseas.

Medicine.

During the past session there were two hundred and one students, of whom fifteen were women, registered in the five years of the medical course. In the graduating class, thirty-seven students, including three women, were recommended for the degree.

The medical course is in the process of changing over from a one year pre-medical and six years medical to a three year premedical and five years medical curriculum. The old first year has been discontinued and the last second year under the old curriculum will enter the University this autumn.

In common with other students of the University, the medical students, with the exceptions of the final year, have undergone the required military training.

In addition to those members of the faculty of Medicine already reported as being on active service, Dr. W. C. Mackenzie of the department of Surgery has entered the naval service.

The question of advancing the graduation of senior medical students to provide personnel for the military forces quickly was given due consideration and it was decided to advance the date of the commencement of the teaching of the final year to July 1st, 1941.

Scarcity of clinical material for teaching purposes in the University Hospital still continues to be the routine complaint of members of the clinical staff. Some progress has been made in increased utilization of facilities in the Royal Alexandra and Edmonton General hospitals, and it is hoped this may be further extended.

The annual refresher course for graduates held during Convocation week in the University Hospital was very successful.

Report of Dean R. S. L. Wilson of the Faculty of Applied Science

The number of undergraduates in this faculty during the current session is, according to the information supplied by the Registrar, 315, which is 19 more than last year.

The distribution among years and departments is as follows:

First Year	130
Second Year	71
Third Year	61
Comprised of:	
Chemical Engineering	15
Civil Engineering	16
Electrical Engineering	9
Engineering Physics	4
Mining Engineering	17

Comprised of:

Chemical Engineering	17
Civil Engineering	6
Electrical Engineering	12
Engineering Physics	1
Mining Engineering	17

In September, 1939, the quota of admissions to first year engineering was raised from 80 to 120. This was done in view of the anticipated increase of demands for engineers for various services, including fighting and industrial, in connection with the war.

In June, 1940, a proposal was made by engineer members of the teaching staff here that all Canadian Engineering schools should be kept in operation throughout practically the whole of the calendar year instead of the usual yearly period of approximately seven months. This proposal was placed before the appropriate federal authorities as well as the other engineering schools. No action has resulted as yet although the Canadian Universities Conference agreed last February to press the matter with the Prime Minister.

In September, 1940, the admission quota to first year was again placed at 120. Space was found for the junior classes in drawing at the old Garneau School. Additional staff and equipment were provided in the departments of mathematics, physics, chemistry, civil engineering and mining engineering. A new double-shift arrangement for the survey school was tried and found very satisfactory.

In December, 1940, the University was visited by a British liaison officer on behalf of the Scientific Research staffs of Canada and Britain. We were persuaded to begin at once certain courses in radio engineering in the department of electrical engineering. These courses are part of the regular professional courses in electrical engineering and should not be confused with the Summer School courses on Electrical Methods of Fire Control to be given to recruits now being assembled at various centres.

The demand for engineers anticipated at the outbreak of the war has materialized. At the urgent request of the Civil Service Commission of Canada the Faculty Council agreed to release certain graduands and third year students for urgently required services before completing the formal examinations for their degrees and year standings. Each case was carefully considered by the department chiefly concerned so that there was no doubt of the student's likely success if he had taken the examinations. It is reported that a similar procedure was followed at certain other engineering schools.

During the session practically all male students were devoting six or more hours per week to military drill and military duties in addition to the regular academic work which was not reduced from previous standards. There were times when one suspected that academic results might suffer. At the end of the session, however, I feel that no claim can be sustained that any lower achievement resulted. The attitude of students as a whole towards the added military requirements is, in my opinion, entirely satisfactory.

The Engineering Students Society made an arrangement with the Medical Services Board whereby students wishing to enter certain occupations in mining and chemical engineering may obtain medical X-ray examinations in accordance with

the requirements of Workmen's Compensation Acts of other provinces. Certain industrial hazards to health are thereby obviated and disappointments avoided to a few students and graduates who might otherwise continue towards a profession for which they are not physically fitted. I record on behalf of my students their appreciation as well as my own of the Medical Director's and his associates' kind advice and co-operation in making the arrangements.

Report of Dean J. A. Weir of the Faculty of Law

During the academic year just closing there were 59 students in full-time attendance in the faculty of Law at the University. Twenty-three were in the graduating year, and this full number was recommended to the Senate for the degree of Bachelor of Laws. Fifteen were in the second year and twenty-one in the first year.

The work done by the students in all years has been of good quality—slightly above the average, if anything. Notwithstanding the effect of compulsory military training which was superimposed on the normal work of the year, it has been found that the strictly academic work has not suffered. Many students in this faculty have taken a very active and responsible part in the work of the C.O.T.C. and of the Auxiliary Battalion. These students, though under considerable strain, have given a good account of themselves in their purely academic work. No problem of discipline of any kind has arisen in this faculty out of the requirement of compulsory military training.

Our relations with the Law Society and with the Education Committee of the Benchers continue, as always, very close and cordial. Frequent meetings are held with the Education Committee at which education matters of common interest are discussed and various problems actually arising are dealt with.

No change in staff has been made during the year.

It is interesting to note that two-thirds of last year's graduating class are in the Armed Services and that many members of this year's class have already enlisted. No problem of employment of graduates, consequently, exists.

Report of Principal M. E. LaZerte of the College of Education

Before commenting upon details of the year's work, I wish to say that we were very pleased to welcome Dr. Kenneth F. Argue as a member of the staff at the beginning of the year. Dr. Argue's work is increasing very noticeably the effectiveness of the teacher-training and graduate courses.

The enrolments in the College of Education have been increasing rather rapidly. There were forty-seven students in the teacher-training course during the session. The total number of registrations, including partials, was fifty-one. Thirty-five of these students were graduates registered in courses leading to the Senior Diploma of the College of Education, twelve were undergraduates taking courses leading to the Junior Diploma of the College of Education.

The number of extra-mural students in the graduate school whose work was directly supervised by the College of Education was fifty-three. There were one hundred registrations in education courses in the 1940 summer session.

The Senate accepted the recommendations from both the College of Education and the School of Graduate Studies that the administration of the Bachelor of Education courses would in future be the responsibility of the College of Education.

Many teachers, particularly those in the departments of mathematics and science, have enlisted with the armed forces, creating as a result vacancies in high school staffs of the Province.

Report of Dean G. M. Smith, Chairman of the School of Graduate Studies

1. During the academic year 1940-41, 107 students were registered in the School of Graduate Studies in candidature for higher degrees.

The distribution of graduate students, according to degrees sought, was as follows:

<i>Degree</i>	<i>Men.</i>	<i>Women.</i>	<i>Total.</i>
Master of Arts	17	5	22
Master of Science	20	1	21
Master of Science (Agriculture)	11	11
Bachelor of Education	28	5	33
M.A. in Education	12	1	13
M. Education	7	7
	—	—	—
	95	12	107

In addition, 15 graduates who are not candidates for any higher degree were registered in the School as special graduate students.

The distribution of candidates for higher degrees according to departments was as follows:

Animal Husbandry	2
Biochemistry	7
Chemistry	6
Education	53
English	6
Entomology	1
Field Crops	3
Geology	6
History	5
Horticulture	2
Modern Languages	4
Philosophy	5
Political Economy	2
Soils	4
Zoology	1
	—
	107

2. Concurrently with the Council of the College of Education, the School of Graduate Studies recommended to the Senate that the administration of the Bachelor of Education degree, established at the meeting of the Senate of December, 1939, be transferred to the Council of the College of Education. The Senate approved this recommendation at the meeting in May, 1941.

3. The University of Alberta Research Scholarships for 1940-41 were awarded to Miss Elizabeth Mary Frost, Department of Philosophy and Psychology, and to James George Ross, Department of Field Crops.

4. Through the generosity of the Philosophical Society, the School has again been able to award in 1941 a scholarship of the value of \$100 to a deserving student

with an exceptionally good record who, having completed work for the M.A. or M.Sc. degree in the spring of 1941, is proceeding in the autumn to another university for further study. The scholarship in 1941 was awarded to Walter Lewis Dunkley, department of Biochemistry, by reversion from Miss Edith Alice Fleming. Mr. Dunkley is now pursuing advanced work at the University of Wisconsin.

Report of the Provost

1—*Students' Union.*

The session, as might be expected on account of unsettling conditions and problems as to the future, presented many difficulties in student government. Compulsory military training made heavy demands upon students' time and energy and interfered not only with their studies but with those activities from which they generally derive considerable recreation and other important benefits. I am glad to say, however, that they accepted their new tasks loyally and for the most part cheerfully. I have no hesitation in saying also that the military training has exerted a very beneficial influence upon student deportment generally. In spite of certain difficulties encountered at the beginning of the session, the Students' Council conducted the affairs of the Union in a very satisfactory manner. The final financial statement shows a credit balance of \$2,500, of which \$2,000 has been invested in war bonds. There is also at the present time a sum of \$26,000 held in trust for a Students' Union Building.

Special contributions were made during the session to the Red Cross, the Spitfire Fund, the War Contact Fund, the War Workers Fund—the latter two of which provide various comforts for members of the faculty, graduates and undergraduates now on active service. Contributions were also made to the International Students' Service, the Greek Relief Fund, and to the Christmas Fund which is used for distributing certain supplies to needy families throughout the Province.

2—*Athletics.*

Much discontent was caused by the action of the Universities' Conference in cancelling all inter-university competitions for the year. As a result, however, of an appeal for reconsideration of this policy, the western universities were granted freedom to continue these competitions. Alberta and Saskatchewan competed in Rugby, Basketball, Boxing, Wrestling and Fencing.

The reorganization of the Big Block Club and the institution of "Colour Night" have as their aim the setting up of higher standards of sportsmanship and athletic attainment.

3—*Literary Society.*

The outstanding achievement of the Literary Society was the production by the Philharmonic Society of Gilbert and Sullivan's "Mikado" which played before four crowded houses in Convocation Hall and before two large audiences in Calgary. It is to be regretted that there has been a falling off of interest in the activities of the Debating Club, the Political Science Club and the Public Speaking Club, due, no doubt, to some extent to the added work in connection with military training.

4—*The Gateway.*

For some years the conduct of "The Gateway", the students' paper, has been deemed unsatisfactory by both faculty and students. During the past session, a committee, appointed by the Committee on Student Affairs under the chairman-

ship of Dean Newton, made a very careful study of this problem and presented an excellent report which it is hoped will result in raising "The Gateway" to the desired level and make it more truly representative of the best life of the student body.

5—*Medical Services.*

The Medical Services have been conducted with great efficiency. In spite of a long epidemic of Rubella involving the treatment of about fifty cases and a larger number than usual of emergency operations, the financial statement shows a balance of about \$150.00.

6—*Discipline.*

The most serious cases of discipline involved the cancelling of the annual student dinner of one of the faculties and the annual student dance of another faculty on account of misconduct, and the confirmation by the University of the disciplinary action exercised by two fraternities in connection with the misconduct of certain of their members. All other cases were of a minor nature.

7—*Social Functions.*

The number and character of social functions in the University is determined by the Committee on Student Affairs which is a Senate Committee. The supervision of these functions is the responsibility of the Provost. On account of a great deal of criticism of the number and cost of the social functions at the present time and the failure of the students themselves to respond to the request to take action in the matter, it would seem proper that the Senate, which represents the public as well as all interests in the University, should consider the advisability of issuing instructions to the Committee on Student Affairs to take the necessary steps to regulate further the number, character and cost of these functions.

Report of the University Library by the Librarian, Mr. D. E. Cameron

During the past year, the work of the Library has proceeded along the accustomed lines, with adjustments, large and small, required by the conditions of the day.

There has been no change in the staff during the year. Miss Hamilton has been awarded an American Library Association Fellowship of \$1,300 for advanced study at the University of Michigan, and has been granted leave of absence for this purpose.

As many students were prevented by military parades from using the Library at their usual hours, special hours were arranged to accommodate them; the Medical Library, for example, was opened at 7:30 a.m. Seating space has been very fully used during the year, and, as ever, the problem of space for books and readers taxes our ingenuity to the full.

The reduced postal rate on books circulated from the Library has been found of great advantage, a notable increase having taken place in the books borrowed by physicians from the Medical Library by mail, the cost previously of mailing heavy medical books having been severely restrictive.

A further advance in library service has been the development of microfilm reproduction of books and articles, which can now be obtained in microfilm from most of the larger libraries, the cost of an article being in most cases far under the previous postal charges alone. The Library has acquired a projector for reading

microfilm, and appearances are that this service will be greatly extended, and will prove a great economy in library work.

For the first year of the war a few numbers only of German periodicals were received, but now no journal arrives from any German-occupied country, the only surviving journal from continental Europe being one from Sweden. Books bought in the United States suffer from a price enhanced by approximately 25%, and books from Great Britain are greatly delayed in delivery. We are, however, able to maintain our connection to a remarkable degree, and the London book trade is making heroic efforts to meet the emergency. Long delays occur and correspondence has often to be duplicated, but, so far, no single book coming to us from London has to our knowledge been lost at sea; one only returned by us to London is reported as damaged by sea water, and useless.

Delay in delivery has been at times inconvenient, and at present London orders dating early January are just coming in, but continuity of service has still been maintained, in spite of the loss of all their records by our London agents, Messrs. Simpkin Marshall.

During the year, we have received great advantage from a recently organized exchange of medical books and journals, many items of use to us having been received from larger libraries in exchange for such of our duplicates as we can spare. The cordial relationships with other libraries has been maintained, and the many courtesies extended to us by larger libraries are gratefully recorded.

The building up of the Woods Collection, made possible by the generous gifts of Colonel J. H. Woods and a friend, has been given care. This library of books designed to extend our knowledge of the life and work of the United States and so build up a more sound understanding of, and sympathy with, our neighbors, is now about half completed, and is being carefully added to as suitable material is found. Very considerable use has been already made of this valuable addition to our resources, which has greatly strengthened the Library in an important field.

During the year a fairly large collection of Dominion Government publications was added by gift from other libraries; these in the meantime have to be stored, but will in time be of great use, and are therefore accepted, although at present they cannot be made readily available for use. Many other gifts of books and periodicals have been received also and all have been suitably acknowledged.

The accession number now stands at 72,358, an increase during the year of 2,466 bound volumes.

Binding and other routine duties have been regularly maintained during the year.

The College of Physicians and Surgeons of Alberta again gave a generous grant of \$200 for the purchase of medical books.

**Report of the Director of the Department of Extension,
Mr. Donald Cameron**

Statistical Survey.

Number of lectures, general	131
Aggregate attendance	9,249
<i>Radio.</i>	
Radio lectures, General and Agricultural	361
Total number studio programmes	105

Total number Remote Control programmes	15	
Total number school broadcasts	75	
Total number Symphony hours	163	
Total number plays	2	
Total number hours broadcasting	1,176	
<i>Library and Debating Service.</i>		
Number of Regular Libraries circulated	90	
Number of Special Libraries circulated	79	
Travelling Library circulation:		
Regular	21,287	
Special	49,059	
		70,346
Open Shelf circulation:		
Books	19,340	
Pamphlets and clippings	1,471	
Periodicals	1,358	
		22,169
Books and magazines sent to Alberta School of Community Life	200	
Books and magazines sent to Banff School of Fine Arts	421	
Communities supplied with single plays (adult, juvenile)	326	
Number of adult single plays sent out	1,315	
Number of juvenile single plays sent out	139	
Number of juvenile collections	358	
Number of adult collections	745	
		2,557
Number of package libraries for debaters	352	
Each set used by 4 people		1,408
<i>Visual Instruction.</i>		
Number of times lantern loaned	55	
Sets of lantern slides circulated	675	
Number of times used	447	
Aggregate attendance lantern lectures		54,172
Sets of film-slides circulated	1,009	
Number of times used	2,045	
Aggregate attendance		64,213
Sets of moving picture films circulated	1,542	
Number of reels in sets	5,823	
Number of showings	2,987	
Aggregate attendance at moving picture programmes		341,327
<i>Conferences.</i>		
University Week for Farm Young People:		
Delegates	110	
Leaders	6	
		116
Refresher Course in Municipal Administration		70
Land Inspectors' Short Course		100

Study Groups.

Number of sets sent out to groups in

Alberta	279
Saskatchewan	3
Manitoba	11
British Columbia	2

Total..... 295

Estimated attendance at study groups in Alberta 1,500

Number of students in W.E.A. Study classes in Edmonton 40
Calgary nil.

Youth Training Programme.

Number of schools	22
Number of staff members	26
Total attendance at schools	1,287

Publications.

Press Bulletins:

Number of issues	1
Circulation	5,500

Agricultural Publications:

Number sent out during the year	26,079
Number of individual requests received	3,000
Total number of bulletins distributed since inception of service	323,203

Arts.

Enrolment at Banff School of Fine Arts (Edmonton and Banff):

Banff	175
Edmonton	55
.....	230

Enrolment at Art Schools, Vegreville and Lethbridge 27

Adjudications: Smoky Lake, Alix, Edmonton, etc., attendance 2,000

Alberta School of Community Life.

Attendance 91

Lake Saskatoon Conference.

Attendance: Regular	52
Evenings	200
	200

Canadian Legion War Services.

Registrations 974

Recapitulation.

Total aggregate attendance at lectures, lanternslide lectures, moving picture programmes, Farm Young People's Week, Study Groups, Banff School of Fine Arts, Art Schools at Vegreville and Lethbridge, Alberta School of Community Life, Youth Training Schools, Refresher Course in Municipal Administration, Land Inspectors' Course, Adjudications, Lake Saskatoon Conference, Canadian Legion War Services 475,596

Total circulation of books, travelling libraries, package libraries, plays, periodicals	96,480
Total circulation of Press Bulletin and Agricultural publications	31,579

NOTE: The statistics do not mean separate individuals, as a great many people receive more than one service from the Department.

Conclusion.

This report covers the twenty-eighth year of service by the Department of Extension. To anyone who takes the time to examine the manifold activities of the Department, it must be apparent that through its Department of Extension the University of Alberta is making a valuable contribution to the life of this province. There is no corner of the province too remote and no group of people too small to be reached in one way or another by the University, thus it becomes in a very real sense a University of the people, serving them, guiding them, and establishing that community of interests and sympathy which must exist between an institution of higher learning and its constituency if the greatest values of democratic life are to be preserved.

Report of the Acting Director of the Provincial Laboratory, Dr. J. J. Ower—January, 1940, to December, 1940

I have the honour to submit the following report of the work carried out in the Provincial Laboratory for the year 1940. The number of routine public health laboratory examinations, as will be noted in the accompanying tables, is still increasing, the total being some 4,500 higher than in 1939.

As noted in previous reports the total of strictly public health examinations has been increasing so much from year to year that it was finally found impossible to carry on the large number of animal pathological examinations requested. The establishment of a modern special veterinary pathological laboratory by the Department of Agriculture has transferred the load of this work from this laboratory. Chicken bloods, fox vaccines and other veterinary examinations have been discontinued. Routine cattle bloods continue for the present to be done in the laboratory.

In spite of this relief, the natural increase in the routine work, plus the added demand for large numbers of special examinations for soldiers has now completely overtaxed the physical capacity of the space, equipment and personnel.

In conclusion, may I state that the staff have shown great loyalty and diligence and a willingness to accept, without complaint, the considerable amount of unrewarded overtime necessary to complete the work day by day.

The accompanying table covers some of the detail of the year's work:

Commercial Value of Work if Minimum Charge Were Made, 1940

Sputum	632	\$ 1.00	\$ 632.00
Diphtheria	2,149	1.00	2,149.00
Typhoid Fever	471	1.00	471.00
Milks	1,172	3.00	3,516.00
Waters	2,414	10.00	24,140.00
Miscellaneous Examinations	3,722	3.00	11,166.00
Mothers' Milks	2.00
Urinalysis	85	3.00	255.00
Medico-Legal Examinations	5	5.00	25.00

* Bloods for Wassermann Test	33,140	3.50	115,990.00
Smears for the Gonococcus	5,966	1.00	5,966.00
Van Der Bergh Determination	2,295	1.00	2,295.00
Pathological Histological Material	9,360	5.00	46,800.00
Blood Smear Examinations	117	2.00	234.00
Ascheim Zondek Test	200	5.00	1,000.00
Cerebro-Spinal Fluid Examinations	2,031	2.00	4,062.00
Port-mortem Examinations (Bact.)	99	5.00	495.00
B. Abortus Examinations	466	1.00	466.00
B. Tularensis	465	1.00	465.00
Typhoid Vaccine (10 c.c. quantity)	1,059	.25	264.75
Autogenous Vaccine (25 c.c. quantity)	475	5.00	2,375.00
Stock Vaccine (25 c.c. quantity)	500	5.00	2,500.00
Poliomyelitis Serum (20 c.c. quantity)	24	2.50	60.00
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Total.....			\$225,326.75
Cattle Blood Examinations	1,161	.10	116.10
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Total.....			\$225,442.85

Report of the Director of the Industrial Laboratories and Provincial Analyst, Mr. James A. Kelso

In all, 3,704 examinations and analyses of various substances were carried out during the year.

Besides analyses and examinations court evidence and consultations were necessary in cases covering Alberta and Dominion Acts. Much time was spent on investigations re criminal cases for the R.C.M.P. Various government departments were assisted with examinations, etc., such as surveys of the Department of Trade and Industry, Alberta Liquor Control Board, Department of Provincial Secretary, Department of Lands and Mines. Special problems coming up during the year included detailed work on colouring of gasoline under Fuel Tax Act, this being done with inspectors of the Department of Provincial Secretary and also inspectors from Saskatchewan.

The usual assistance was given to prospectors and companies in the province and analyses made for departments of the University and control work handled for the University Power Plant.

Materials of construction were handled in conjunction with departments of Civil and Electrical Engineering.